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PATENT



13510CIP

**UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Leake *et al.* Examiner: To be assigned  
Serial No.: 10/613077 Group Art Unit: To be assigned  
Filed: July 1, 2003  
For: Stabilized Polynucleotides for Use in RNA Interference  
Customer No.: **23719** Kalow & Springut LLP  
PATENT TRADEMARK OFFICE 488 Madison Avenue, 19th Floor  
New York, New York 10022

June 24, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Applicants submit herewith the following disclosure in accordance with the provisions of  
37 C.F.R. §§ 1.97 and 1.98.

**I. U.S. PATENT DOCUMENTS**

<b><u>Patent No.</u></b>	<b><u>Date Issued</u></b>	<b><u>Title</u></b>
*5,670,633	09-23-1997	Sugar Modified Oligonucleotides that Detect and Modulate Gene Expression
*5,792,847	08-11-1998	2' Modified Oligonucleotides
*5,817,781	10-06-1998	Modified Internucleoside Linkages
*5,914,396	06-22-1999	2'-O-Modified Nucleosides and Phosphoramidites

**Certificate of Mailing Under 37 C.F.R. 1.8**

I hereby certify that this correspondence is being deposited on the date shown below with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Rosanna Bonadonna Rosanna Bonadonna 6-24-04  
(Signature) (Printed Name of Person Signing Certificate) (Date)

<u>Patent No.</u>	<u>Date Issued</u>	<u>Title</u>
*6,005,087	12-21-1999	2'-Modified Oligonucleotides
*6,060,592	05-09-2000	Pyrimidine Nucleoside Compounds and Oligonucleoside Compounds Containing Same
*6,166,197	12-26-2000	Oligomeric Compounds Having Pyrimidine Nucleotide (S) With 2' And 5 Substitutions
*6,222,025	04-24-2001	Process For The Synthesis of 2'-O-Substituted Pyrimidines and Oligomeric Compounds Therefrom
*6,369,040 B1	04-09-2002	Pyrimidine Nucleosides
*6,395,492 B1	05-28-2002	Derivatized Oligonucleotides Having Improved Uptake and Other Properties
*6,410,702 B1	06-25-2002	Modified Internucleoside Linkages (II)
*6,476,205 B1	11-05-2002	2' Modified Oligonucleotides
5,138,045	08-11-1992	Polyamine Conjugated Oligonucleotides
5,264,562	11-23-1993	Oligonucleotide analogs with Novel linkages
5,264,564	11-23-1993	Oligonucleotide Analogs with Novel Linkages
5,414,077	05-09-1995	Non-Nucleoside Linkers For Convenient Attachment of Labels To Oligonucleotides Using Standard Synthetic Methods
5,434,257	07-18-1995	Binding Competent Oligomers Containing Unsaturated 3', 5' and 2', 5' Linkages
5,457,191	October 10, 1995	3-Deazapurines
5,459,255	October 17, 1995	N-2 Substituted Purines
5,489,677	February 6, 1996	Oligonucleoside Linkages Containing Adjacent Oxygen and Nitrogen Atoms
5,578,718	November 26, 1996	Thiol-Derivatized Nucleosides
5,587,361	December 24, 1996	Oligonucleotides Having Phosphorothioate Linkages of High Chiral Purity
5,587,469	December 24, 1996	Oligonucleotides Containing N-2 Substituted

<u>Patent No.</u>	<u>Date Issued</u>	<u>Title</u>
		Purines
5,596,086	January 21, 1997	Modified Internucleoside Linkages Having One Nitrogen and Two Carbon Atoms
5,608,046	March 4, 1997	Conjugated 4'-Desmethyl Nucleoside Analog Compounds
5,610,289	March 11, 1997	Backbone Modified Oligonucleotide Analogues
5,677,437	October 14, 1997	Heteroatomic Oligonucleoside Linkages
5,777,092	July 7, 1998	Heteroatomic Oligonucleoside Linkages
5,792,844	August 11, 1998	Oligonucleoside Linkages Containing Adjacent Nitrogen Atoms
5,834,607	November 10, 1998	Amines and Methods of Making and Using the Same
5,852,182	December 22, 1998	Thiol-Derivatized Oligonucleosides
5,852,188	December 22, 1998	Oligonucleotides having Chiral Phosphorus Linkages
5,859,221	January 12, 1999	2'-Modified Oligonucleotides
5,872,232	February 16, 1999	2'-O-Modified Oligonucleotides
5,965,722	October 12, 1999	Antisense Inhibition of RAS Gene with Chimeric and Alternating Oligonucleotides
6,043,352	March 28, 2000	2'-O-Dimethylaminoethoxyethyl-Modified Oligonucleotides
6,111,085	August 29, 2000	Carbamate-Derivatized Nucleosides and Oligonucleosides
6,114,513	September 5, 2000	Thiol-Derivatized Oligonucleotides
6,127,533	October 3, 2000	2'-O-Aminooxy-Modified Oligonucleotides
6,147,200	November 14, 2000	2'-O-Acetamido Modified Monomers and Oligomers
6,153,737	November 28, 2000	Derivatized Oligonucleotides Having Improved Uptake and Other Properties

<u>Patent No.</u>	<u>Date Issued</u>	<u>Title</u>
6,166,188	December 26, 2000	Carbamate-Derivatized Nucleosides and Oligonucleosides
6,172,209	January 9, 2001	Aminooxy-Modified Oligonucleotides and Methods for Making Same
6,239,265 B1	May 29, 2001	Oligonucleotides Having Chiral Phosphorus Linkages
6,242,589 B1	June 5, 2001	Phosphorothioate Oligonucleotides Having Modified Internucleoside Linkages
6,277,967	August 21, 2001	Carbohydrate or 2'-Modified Oligonucleotides Having Alternating Internucleoside Linkages
6,307,040 B1	October 23, 2001	Sugar Modified Oligonucleotides That Detect and Modulate Gene Expression
6,322,987 B1	November 27, 2001	Carbamate-Derivatized Nucleosides and Oligonucleosides
6,326,358 B1	December 4, 2001	Carbohydrate or 2'-Modified Oligonucleotides Having Alternating Internucleoside Linkages
6,369,209 B1	April 9, 2002	Oligonucleotides Having A-DNA Form and B-DNA Form Conformational Geometry
6,380,368	April 30, 2002	Enhanced Triple-Helix and Double-Helix Formation with Oligomers Containing Modified Pyrimidines
6,440,943 B1	August 27, 2002	Oligonucleotides Having Site Specific Chiral Phosphorothioate Internucleoside Linkages
6,495,672 B1	December 17, 2002	Oligonucleotides Including 2-Aminopyridine and 2-Pyriidone C-Nucleoside Units
6,525,031 B2	February 25, 2003	Targeted Oligonucleotide Conjugates
6,531,584 B1	March 11, 2003	2' Modified Oligonucleotides

The items listed above are identified on the accompanying Form PTO/SB/08. Copies of the items listed above have not been supplied. If the Examiner requires any copies, the Examiner is invited to request copies from Applicants.

Applicant: Leake et al.  
Serial No.: 10/613077  
Filed: July 1, 2003  
Information Disclosure Statement  
June 24, 2004  
Page 5 of 5

A commercial competitor of the assignee brought the items listed above to Applicants' attention. Items that might be of particular interest to the Examiner are marked with an asterisk. Applicants take no position on whether any of the items cited above and listed on the accompanying Form PTO/SB/08 constitute prior art against the subject application under any particular provision of Title 35 of the United States Code.

Because no action has been taken on the merits, Applicants submit that no fee is due at this time. However, if a fee is deemed necessary, please charge Deposit Account No. 11-0171.

Respectfully submitted,

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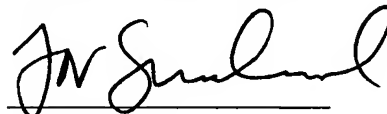
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Respectfully submitted,

A handwritten signature in black ink, appearing to read "Tor Smeland", written over a horizontal line.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

## Complete if Known

Application Number	10/613077
Filing Date	July 1, 2003
First Named Inventor	Leake, et al.
Art Unit	to be assigned
Examiner Name	to be assigned
Attorney Docket Number	13510CIP

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		US- 6,005,087	12-21-1999	Cook, et al.	
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		US- 6,222,025B1	4-24-2001	Cook, et al.	
		US- 6,369,040B1	4-9-2002	Acevedo, et al.	
		US- 6,395,492B1	5-28-2002	Manoharan, et al.	
		US- 6,410,702B1	6-25-2002	Swaminaathan, et al.	
		US- 6,476,205B1	11-5-2002	Buhr, et al.	
		US- 5,138,045	4-11-1992	Cook, et al.	
		US- 5,214,136	5-25-1993	Lin et al.	
		US- 5,264,562	11-23-1993	Matteucci	
		US- 5,264,564	11-23-1993	Matteucci	
		US- 5,399,676	3-21-1995	Froehler	
		US- 5,414,077	5-9-1995	Lin et al.	
		US- 5,434,257	7-18-1995	Matteucci, et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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STATEMENT BY APPLICANT**

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Sheet 2 of 5**Complete if Known**

Application Number	10/613077
Filing Date	July 1, 2003
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Art Unit	to be assigned
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		US- 5,459,255	10-17-1995	Cook, et al.	
		US- 5,484,908	1-16-1996	Swaminathan, et al.	
		US- 5,489,677	2-6-1996	Sanghvi, et al.	
		US- 5,502,177	3-26-1996	Matteucci, et al.	
		US- 5,514,786	5-7-1996	Cook, et al.	
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		US- 5,587,361	12-24-1996	Cook, et al.	
		US- 5,587,469	12-24-1996	Cook, et al.	
		US- 5,587,470	12-24-1996	Cook, et al.	
		US- 5,594,121	1-14-1997	Froehler, et al.	
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Sheet 3

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		US- 5,763,588	6-9-1998	Matteucci, et al.	
		US- 5,777,092	7-7-1998	Cook, et al.	
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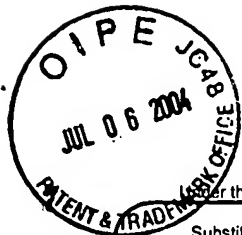
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		US- 6, 235,886B1	5-22-2001	Manoharan, et al.	
		US- 6,239,265B1	5-29-2001	Cook	
		US- 6,242,589B1	6-5-2001	Cook, et al.	
		US- 6,265,558B1	7-24-2001	Cook, et al.	
		US- 6,271,358B1	8-7-2001	Manoharan, et al.	
		US- 6,277,967B1	8-21-2001	Manoharan	
		US- 6,277,982B1	8-21-2001	Fraser, et al.	
		US- 6,300,319B1	10-9-2001	Manoharan	
		US- 6,322,987B1	11-27-2001	Cook, et al.	
		US- 6,326,358B1	12-4-2001	Manoharan	
		US- 6,335,437B1	1-1-2002	Manoharan	
		US- 6,358,931	3-19-2002	Cook, et al.	
		US- 6,369,209	4-9-2002	Manoharan, et al.	
		US- 6,380,368B1	4-30-2002	Froehler, et al.	
		US- 6,414,127B1	7-2-2002	Lin, et al.	
		US- 6,440,943B1	8-27-2002	Cook, et al.	

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